

IRRIGATION SYSTEM ECONOMIC ANALYSIS WORKSHEET

Land user _____ Field Office _____
 Job description _____
 Location _____
 Planner _____ Date _____ Checked by _____ Date _____
 Assumed Interest Rate _____%

CALCULATIONS OF OWNERSHIP COSTS

Item	Est. Yr. of Life	Initial Cost	Amort. Factor	Annual Cost
Well	25+			
Reservoir	20+			
Concrete Structures	25+			
Pump				
Vertical Propeller	10			
Turbine	15			
Centrifugal	12			
Submersible Lowhead (e.g., Crisafulli)	8			
Power Unit				
Electric	25			
Gasoline	10			
Diesel	12			
Propane, Nat. Gas	12			
Miscellaneous				
Electric Panel	25			
Gas Line-Plastic	20			
Propane	20			
Diesel or Gas	18			
Land Plane	15			
Water Pipeline				
Underground Pipe				
Plastic	25+			
Concrete	25+			
Steel	20			
Asbestos Cement	20			
Galvanized Steel	15			
Aboveground Pipe				
Aluminum	15			
Plastic	10			
Galvanized Steel	15			
Special Valves	15			
Pipe Trailer	10			

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Item	Est. Yr. of Life	Initial Cost	Amort. Factor	Annual Cost
Sprinkler Systems				
Hand Moved	15			
Tractor Moved	10			
Side-Wheel-Roll	12			
Self-Propelled (pivot, big gun)	15			
Permanent	20			
Surface Systems				
Land Leveling	25			
Concrete Ditch	25			
Land Drainage	20			
Other				
TOTAL INVESTMENT				\$ _____

Total Annual Depreciation \$ _____

Insurance (\$ _____ Total Investment X .003) = \$ _____

Stand By (Fixed) Charges for Electricity \$ _____

TOTAL ANNUAL OWNERSHIP COSTS \$ _____

CALCULATION OF ANNUAL OPERATING COSTS

	Horse- Power Required		Number of Hrs. Operated		Cost/ Unit of Fuel		Bhp Hrs./ Unit of Fuel		Total
1. Fuel	_____	X	_____	X	_____	/	_____	= \$	_____
2. Oil	_____	X	_____	X	_____	/	_____	= \$	_____
3. Repairs & Maint. Irrigation System	\$ _____ initial cost x .02 =								\$ _____
4. Repairs & Maint.	\$ _____ initial cost x .005 =								\$ _____
5. Labor	_____ hours per acre per irrigation x _____								
No. of irrigations	x	_____	acres	x	_____	per hour =		\$	_____
TOTAL ANNUAL OWNERSHIP COSTS									\$ _____

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PARTIAL BUDGET

Added Costs: _____

Reduced Returns: _____

TOTAL DEBITS _____

Added Returns: _____

Reduced Costs: _____

TOTAL CREDITS _____
CHANGE IN NET FARM INCOME _____